## **CLAIMS**

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The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

- 1. An illuminated glass deck light panel, comprising:
- (a) a plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses;
- (b) a longitudinally extending support pan for embedding in a supporting substrate;
- (c) said plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses resting on ledges formed in said support pan;
- (d) a sealing material disposed between said load-bearing glass pavers, structural plank glass elements, or other structural lenses and said support pan;
- (e) a plurality of illumination sources disposed in said support pan underneath said plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses; and
- (f) said plurality of illumination sources being at all times illuminated whenever one of said plurality of illumination sources is illuminated.
- 2. An illuminated glass deck light panel, as defined in Claim 1, wherein: interior of said support pan defined between inner surfaces of said support pan and inner surfaces of said plurality of load-bearing glass pavers, structural plank glass elements or other structural lenses is sealed.
- 3. An illuminated glass deck light panel, as defined in Claim 1, a support frame disposed between and sealed to said plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses and said support pan.

ILLUMINATED GLASS DECK LIGHT PANEL AND... Inventor: Frederick J. Sandor, Sr.

- 4. An illuminated glass deck light panel, as defined in Claim 1, wherein: said illuminated glass deck light panel is continuous and non-linear.
- 5. An illuminated glass deck light panel, as defined in Claim 1, wherein: said illuminated glass deck light panel is non-continuous and non-linear.
- 6. An illuminated glass deck light panel, as defined in Claim 1, wherein: said illuminated glass deck light panel has arcuate elements.
- 7. An illuminated glass deck light panel, as defined in Claim 1, wherein: a reflective surface is disposed at a bottom of said support pan.
- 8. An illuminated glass deck light panel, as defined in Claim 1, wherein: a bottom surface of said load-bearing glass pavers, structural plank glass elements, or other structural lenses is sandblasted or is formed of prismatic glass.
- 9. An illuminated glass deck light panel, as defined in Claim 1, further comprising: a second plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses is disposed on top of said plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses.
- 10. An illuminated glass deck light panel, as defined in Claim 9, further comprising: a suitable laminate disposed between said plurality and said second plurality.

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- 11. An illuminated glass deck light panel, as defined in Claim 1, wherein: sides of said support pan are sloped such that said support pan is wider at a top thereof than at a bottom thereof.
- 12. An illuminated glass deck light panel, as defined in Claim 11, wherein: one or both sides of said support pan have a reflective material disposed thereon.
- 13. A method of installing an illuminated glass deck light panel, comprising:
- (a) embedding a longitudinally extending support pan in a supporting substrate;
- (b) placing a plurality of illumination sources in a bottom of said support pan, said plurality of illumination sources being at all times illuminated whenever one of said illumination sources is illuminated;
  - (c) placing a sealing material on ledges formed on said support pan; and
- (d) placing a plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses on said ledges.
- 14. A method of installing an illuminated glass deck light panel, as defined in Claim 13, further comprising: forming a sealed chamber defined between inner surfaces of said support pan and inner surfaces of said plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses.
- 15. A method of installing an illuminated glass deck light panel, as defined in Claim 13, further comprising: placing a support frame between and sealing to said plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses and said support pan.

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16. A method of installing an illuminated glass deck light panel, as defined in Claim 13, further comprising: prior to step (b) or step (c), installing temporary infill blocks in said support pan to provide a smooth surface for other construction activities; and removing said infill blocks before step (d).

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- 17. A method of installing an illuminated glass deck light panel, as defined in Claim 16, wherein: said infill blocks are Styrofoam blocks.
  - 18. An illuminated glass deck light panel, comprising:

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- (a) a plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses;
- (b) a longitudinally extending support pan for embedding in a supporting substrate;

(c) said plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses resting on ledges formed in said support pan;

(d) a sealing material disposed between said glass pavers, structural plank glass elements, or other structural lenses and said support pan; and

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(e) a reflective material disposed in support pan underneath said plurality of load-bearing glass pavers, arranged so as to reflect light from a light source disposed above said plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses to give the appearance that said plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses are illuminated from below.

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19. An illuminated glass deck light panel, as defined in Claim 18, wherein: a bottom surface of said load-bearing glass pavers, structural plank glass elements, or other structural lenses is sandblasted or is formed of prismatic glass.

- 20. An illuminated glass deck light panel, comprising:
- (a) a plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses;
- (b) a longitudinally extending support pan for embedding in a supporting substrate;
- (c) said plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses resting on ledges formed in said support pan;
- (d) a sealing material disposed between said load-bearing glass pavers, structural plank glass elements, or other structural lenses and said support pan;
- (e) a plurality of illumination sources disposed in said support pan underneath said plurality of load-bearing glass pavers, structural plank glass elements, or other structural lenses; and
- (f) said plurality of illumination sources being selected from the group consisting of: pulsed illumination sources, blinking illumination sources, and progressive illumination sources to direct persons in a certain direction.

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